

1 **ABSTRACT OF THE DISCLOSURE**

2 The present invention provides a method and a multi-gene assembly
3 vector system having an acceptor vector and two donor vectors for effective
4 transfer of multiple genes into a single vector. Using the method and the vector
5 system disclosed in this invention, multiple cycles of DNA recombination based
6 on a recombination system can be repeatedly carried out by alternate use of the
7 two donor vectors together with the acceptor vector for recombination. The
8 vector system and the method are used to construct any genetic engineering
9 vector that contains multiple genes or DNA fragments of interest for transfer and
10 expression of the genes in different cells, tissues, and organisms.